



IIPE MANUFACTURING NEWS

Editor-in-chief
Dr. K. Gopalakrishnan

Monthly Newsletter of the Indian Institution of Production Engineers

Editor: **Dr. M. S. Ganesh Prasad**, Principal, Sai Vidya Institute of Technology, Bangalore

Prof. R. M. Vasagam, National Chairman, IIPE

Dr. Wooday P Krishna, National President, IIPE

Vol. 09

Issue: 02

Annual Subscription: Rs. 100

September 2024

Interactions with Vice Chancellor of IUST Islamic University of Science & Technology, Srinagar, J&K



L to R: **Prof. Niyaz, Nikhil Riyaz**, Founder CEO, TSC Technologies and HEXEIA Aerospace, **Prof. Shakil Ahmad Romshoo**, Vice Chancellor, IUST, **Dr. K. Gopalakrishnan**, Project Director, 75 Students' Satellites Consortium Mission and National Secretary, IIPE and **Ms. Inbisat Yousuf Nath**, Final Year, MSc (Physics), CUK/UNISEC India Students Representative

Interactions with VC of Islamic University of Science and Technology (IUST), Srinagar, J&K on 16 August 2024 held at VC's office on Establishing the Centre of Excellence (CoE) of Space Technology at the cost of Rs. 15 to 50 Crores in phases under Consortium Mode with the Support of Lt Governor of J&K Shri. Manoj Sinha and MoE, Govt of India in phases!

National Space Day Celebrated at NIT Srinagar



Invited Speakers of Panel Discussion: **Prof. Prince**, NIT, **Prof. P.K. Dan**, **Ms. Inbisat Yousuf Nath**, CUK, **Mr. Shahid Abbas Mir**, CEO, Greenovator Incubation Foundation at National Space Day Celebrations at NIT Srinagar held on 23 August 2024, Coordinated by NIT **Prof. Dinesh Kumar R**, i/c of IIPE, J&K.



NIT Srinagar Commemorates First National Space Day

In his key message, Director NIT Srinagar, Prof A Ravinder Nath highlighted the achievements in space exploration and the relentless dedication of scientists and engineers

Srinagar, Aug 23: The National Institute of Technology (NIT) Friday celebrated National Space Day to commemorate India's Moon mission Chandrayaan-3 which scripted history by successfully landing on the lunar surface in August 2023.

A statement of the NIT Srinagar issued here said that the theme for National Space Day 2024 was **"Touching Lives while Touching the Moon: India's Space Saga,"** highlighting the broader impact of space exploration on society and emphasising how advancements in space technology can enhance the quality of life on Earth.

In his key message, Director NIT Srinagar, **Prof A Ravinder Nath** highlighted the achievements in space exploration and the relentless dedication of scientists and engineers.



"On this National Space Day, let us celebrate the remarkable achievements in space exploration and the unwavering commitment of scientists and engineers who push the boundaries of our understanding. Their work inspires future generations to dream big and inspire us," he said.

The inaugural session was presided over by Registrar NIT Srinagar, **Prof Atikur Rehman**. "This day is not only a celebration of India's achievements in space but also a platform to raise awareness about the significance of space exploration," he said.

Prof Prince Ganai served as Nodal Officer of the National Space Day, while **Dr. M Zubair Ansari** and **Dr. Dinesh Kumar Rajendran, IPE J&K In charge** were the coordinators of the event. On the occasion, Dean of Faculty Welfare **Prof G A Harmain** highlighted the historical significance of the first National Space Day. It marks a new era of educational focus on space sciences and the need for space exploration among students, he said.

Dean of Alumni Affairs, **Prof Sheikh Nazir Ahmed** said this day serves as a reminder of the dedication and innovation of India's space scientists, whose efforts have propelled the nation to new heights with the successful landing of the Vikram Lander. **Prof M A Shah** said that India celebrates not just the success of Chandrayaan-3 but also the spirit of scientific inquiry and exploration that drives the nation's space ambitions.

HoD Physics, **Prof Ikram** said by commemorating National Space Day, India highlights its dedication to advancing space science and technology and encouraging innovation. In his welcome address, **Prof Prince Ganai**, Nodal Officer of the event, extended a warm welcome to the guests and introduced the theme *'Touching Lives while Touching the Moon: India's Space Saga'*. He said this theme aptly reflects the essence of our space journey and stated how space exploration has advanced scientific knowledge and enriched daily life through technological innovations.

The first session on the *'Journey of Chandrayaan "Pride of ISRO"'* was delivered by **Dr. Dinesh Kumar R**, Assistant Professor, MED, NIT Srinagar. It was followed by a panel discussion on 'Indian Academia in Space' and it was moderated by **Prof. Prince Ganai**.

The panellists include **Prof R K Dan**, IIT Kharagpur, **Mr. Shahid Mir**, CEO, GIF and **Ms. Inbisat Yousuf**, Satellite Researcher, CUK. They encouraged young students to develop foundational skills in science and technology to explore new ideas and designs.

Following this, a special workshop on 'Drones in Space and Satellite Science' (75 Satellite Mission) was conducted, featuring sessions led by **Dinesh Kumar Rajendran, Tusar, Asvik, Abid, and Zahid**.

The technical session on 'The Future of the Indian Space Industry over the Next Decade' was hosted by **Subhash Kupusamy**, ISRO Space Tutor and CEO of Bhramastra Aerospace. Another workshop titled *'Exploring Space through an Eyepiece'* was led by **Numaan Bashir Ganaie**, CEO of Vision Cosmos, and **Murtaza Abbas Khan**, CTO of Vision Cosmos. The event also included a drawing competition on 'The Journey of the Indian Space Program,' followed by a quiz competition on Space Science.

Dinesh Kumar Rajendran, the event coordinator, delivered the formal vote of thanks, expressing his gratitude to the resource persons, students, and scholars for their contributions to the program's success. He also thanked the NIT Srinagar administration for their steadfast support in organising such impactful events on campus.

Teachers Day Celebrations at CIT Jointly with IIFE Chapter



On 05 Sept 2024 Teachers Day Celebrations at CIT, L to R: **Srinivas D**, ITCA, **Dr. K.N. Balasubramanya Murthy**, Former VC, PES University/Dayananda Sagar University, **Dr. K. Gopalakrishnan**, Project Director, 75 Satellites/ITCA, **Er. D.K. Mohan**, Chairman, Cambridge Institute of Technology and **Dr. Madukar G Angur**, Former Chancellor, Alliance University holding 1U Satellite Engineering Model with all Subsystems built by 75 Students' Satellite Consortium Mission/Indian Technology Congress Association (ITCA)/University Space Engineering Consortium (UNISEC) India! **Dr. G. Indumathi**, Principal, CIT & **Dr. Girish**, CIT, Bangalore.





RATHINAM
TECHNICAL CAMPUS
(AUTONOMOUS)



*Department of Mechanical Engineering
jointly with Indian Institute of Production Engineers*
Organizes

Association inauguration

Mastron Club

12th
August 2024

3.30 Pm to 4.30 Pm
Venue: C213

CONVENOR:
Dr. S. Seenivasan
HoD - Mechanical

CO-ORDINATOR (S):
G. Vijayasekaran
S. Tamilselvan
H. Mansoor Raja

[@](#) [f](#) [in](#) [t](#) [v](#) /rathinamcollege

www.rathinamtechnicalcampus.com

One day Event of “**Mastron Club: Association Inauguration**”, has been conducted on 12th August 2024, at Department of Mechanical Engineering, Rathinam Technical Campus, Coimbatore. The event was coordinated by **Mr. G. Vijayasekaran**, AP/Mech, **Mr. H. Mansoor Raja**, AP/Mech, **Mr. S. Tamilselvan**, AP/Mech and Convener was **Dr. S. Seenivasan**, ASP/Mech, HoD & Dean of School of Mechanical Sciences, RTC, Coimbatore. There were 7 staff members and 84 students’ have participated from II, III & IV Year Mechanical Engineering. The program started by invoking the blessings of the almighty at 03.30 PM. Welcome address was delivered by **Mr. Vijayaraja**, III year Mechanical Engineering Student. The session started at 3.30 pm, 84 students participated.

Office bearers were elected from the II, III, and IV year Mechanical Engineering students. Election of Office Bearers held for the post of President, Vice President, Secretary, Treasurer, and various committee heads and then they were introduced. Roles and responsibilities were outlined by each member. The office bearers signed their commitment to the club's objectives and responsibilities. Editorial Team also been Elected among the Students to form the editorial team for the department's newsletter and magazine. The team will be responsible for content creation, editing, and publication, followed by Cake Cutting Ceremony! A cake cutting ceremony was held to celebrate the successful inauguration. The cake was distributed to all attendees, marking the beginning of a new chapter for the Mastron Club. The event concluded with a vote of thanks by **Mr. G. Vijayasekaran**, AP / Mechanical, IIPe Member, RTC acknowledging the efforts of all participants and encouraging active involvement in the club's future activities.



RATHINOM
TECHNICAL CAMPUS
(AUTONOMOUS)



Initiated IIPE J&K State Centre at NIT Srinagar

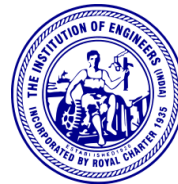
Congratulations to Chairman & Secretary of J&K State Centre of IIPE!



Dr Saad Parvez, Chairman, IIPE J&K State Centre
Associate Professor, Department of Mechanical Engineering
National Institute of Technology (NIT) Srinagar



Dr. Dinesh Kumar Rajendran, Secretary, IIPE J&K State Centre
Assistant Professor, Department of Mechanical Engineering
National Institute of Technology (NIT) Srinagar



Engineers Day 2024 Celebrated at MIT Campus of Anna University



Mr. P. Abdul Kathar

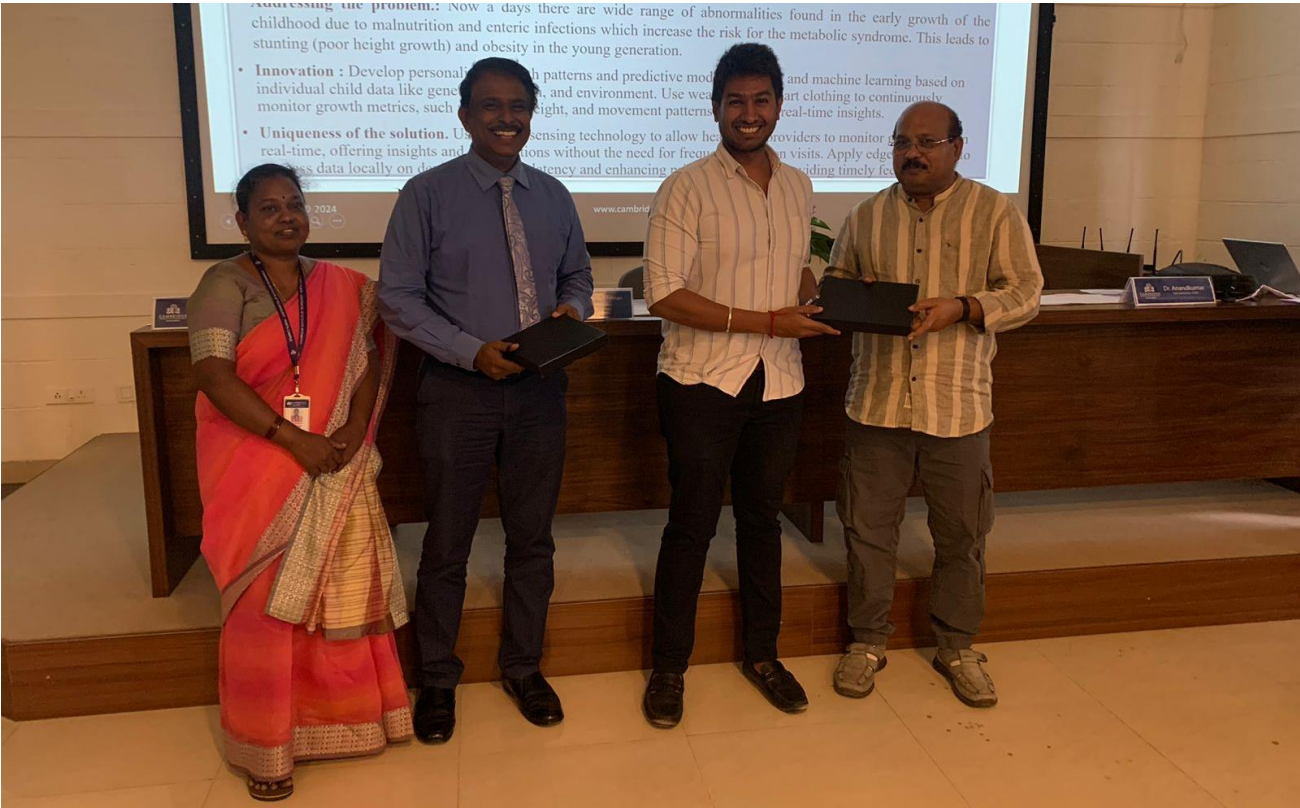
Engineers Day - 2024 Celebrations
held on 16-09-2024 at 15:30 hrs at Prof. SRK Seminar Hall, MIT Campus with the Special Address by **Mr. P. Abdul Kathar**, (7th Batch of Production Technology, MIT, Chrompet) Managing Director, AK Properties & Pranam Leathers, which is organised by the Department of Production Technology, MIT, Anna University Chennai in Association with MIT Chapter of Indian Institution of Productions Engineers (IIPE).

Smart India Hackathon-Internal Evaluation Event @ CIT North Campus



On 13 September 2024 Smart India Hackathon (SIH) of AICTE Preliminary Rounds at CIT-North Campus was Inaugurated by **Dr. K. Gopalakrishnan**, National Secretary, IPE and Project Director, 75 Students' Satellites Mission and **Dr. Antony Loius Piriya Kumar**, Dean (R&D), Cambridge Institute of Technology, Bangalore and also both have served as Jury of Hackathon were 35+ Teams of Studnets of CIT, North Campus have presented enthusiastically! **Dr. P. Sendamarai**, Principal, CIT North Campus, **Dr. Anandkumar**, Professor & Dean and SIH SPOC **Dr. Sugumar S J** were coordinated the Event Successfully. **Mr. Adviteeya**, CEO, CIT North Campus have presented the Memento to the Jury Memebers!

Smart India Hackathon-Internal Evaluation Event @ CIT North Campus



Mr. Adviteeya, CEO, CIT North Campus have presented the Memento to the Jury Members



8th Bangalore Space Expo 2024 (BSX 2024)



IPE National Secretary, Project Director, 75 Students' Satellites Consortium Mission and Professor Emeritus of CIT-CCCIR **Dr. K. Gopalakrishnan** along with **Mr. Nikhil Riyaz**, Founder CEO of Space Startup Hexeia/ CCCIR and **Mr. Sainath**, Space Scientist CITech Sat Team at **Bangalore Space Expo (BSX 2024)** held at Bangalore International Exhibition Centre (18-20 Sept 2024). Interactions/ Exploring Collaborative Payload Experiments with Space Module from International Space Station of Russian Segment with **Roscosmos Russian Space Agency!**

In Association With



Organized by



Confederation of Indian Industry

Congratulations CIT Team from INDIA!

TOP 3 in Taiwan International Mission Idea Contest on CubeSat (TIMICC 2024) Jointly Organized by Taiwan Space Agency (TASA) and the Department of Aerospace Engineering in Tamkang University during **TAIWAN International Assembly of Space Science, Technology, and Industry (TASTI 2024)** 30 Nov- 04 Dec, 2024 at Kaohsiung Exhibition Center, Taiwan (<https://tasti2024.conf.tw/site/page.aspx?pid=901&sid=1584&lang=en>) and

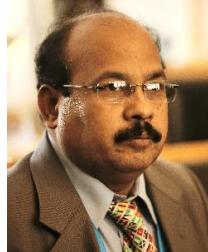
Team from CIT-India, Mentored by CCCIR, CIT and Indian Technology Congress Association-75 Satellites Mission has been shortlisted in **TOP 10** for Final Round of International "9th Mission Idea Contest (MIC) to the Moon" of University Space Engineering Consortium (UNISEC) Global, Japan to be held at South Africa during 27-29 Nov 2024 at **10th UNISEC Global Meeting!** (<https://www.spacemic.net/>) <https://www.unisec-global.org/meeting10.html>

Congratulations Team INDIA! Taiwan & Japan/South Africa Events!

Indo-Taiwan Collaborative Project-Mission Idea Contest to the Moon



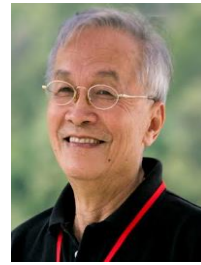
Dr. Myswamy Annadurai
Outstanding Scientist,
Moon Man of India



Dr. K. Gopalakrishnan
IPE/Project Director,
75 Satellites Mission



Dr. Naseer Iqbal
Registrar,
University of Kashmir



Prof. Wing-Huen Ip
National Central University,
Taiwan



Prof. Ying Liao
National Taipei University of
Technology, Taiwan

Members from Indian Side



Nikhil Riyaz
Research Scientist,
CCCR/CIT, CEO, Hexeia



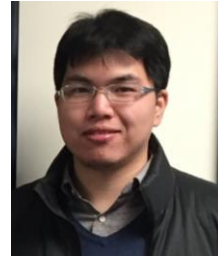
Inbisat Yousuf Nath
Central University of
Kashmir & UNISEC India



Thiru Venkat R
Cambridge Institute of
Technology, Bangalore



Yi-Hsuan (Rosetta) Li
National Tsing Hua
University, Taiwan



Dr. Ian-Lin Lai
National Central
University, Taiwan



Prof. Syed Hayath
Cambridge Institute of
Technology, Bangalore



Md Wael Umar
Cambridge Institute of
Technology, Bangalore



Ramyashree R
Cambridge Institute of
Technology, Bangalore



Yu-Hin Henry Cheng
National Central
University, Taiwan



Hao-En (Julian) Chang
National Central
University, Taiwan



Roshani Bankar
Cambridge Institute of
Technology, Bangalore



World CanSat/Rocketry Championship (WCRC) 2024 held at Portugal

WCRC 2024

First day highlights

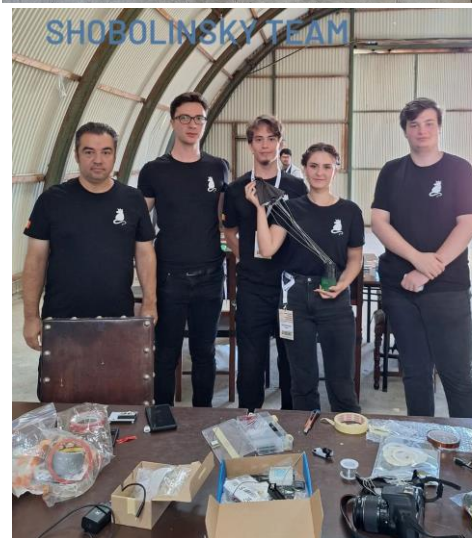
12-14 SEPTEMBER 2024



Open ceremony!



WCRC 2024 Conducted Successfully at Aveiro, Portugal



WCRC 2024 Conducted Successfully at Aveiro, Portugal



Congratulations to everyone! What a pleasure



WCRC WORLD CHAMPIONS

First Place:
Anurag University Team, INDIA

Second Place:
Team from ROMANIA

Third Place:
CSPD Team from SERBIA



WCRC 2024 Conducted Successfully at Aveiro, Portugal (12-14 Sep 2024)



CanSat University Competition



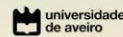
13-15 September 2024
Aveiro, Portugal

WCRC World Finals CanSat 2024

Get ready for adventure, innovation and impact! Join us in Aveiro the Venice of Portugal, where satellite technology not only touches the sky, but also takes care of our blue home.

In this stunning scenario, where sea meets Ria, an unprecedented challenge emerges: to create a CanSat capable of surviving water landing. This innovative focus not only tests the participants' engineering skills in building water-resistant electronics, but also reinforces our commitment to conserving our precious oceans.

Registrations are now open until June 3rd! Don't forget, only a simple video submission is required. Be sure to check the competition rules on our [website](http://www.wcrc.it.pt) for more details.



www.wcrc.it.pt



universidade de aveiro



KPCP/CSPD
Комитет за развој свемирског програма

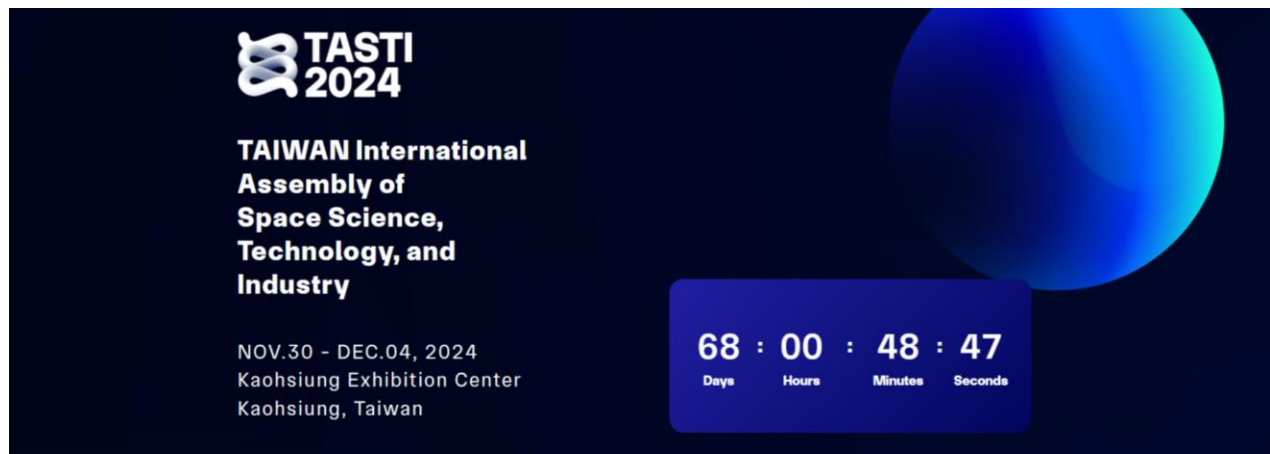
www.iipeonline.org

Interactions with Faculty Members of Physics Department at NIT Srinagar



IPE National Secretary, Project Director, 75 Students' Satellites Consortium Mission and Professor Emeritus of CIT-CCCIR **Dr. K. Gopalakrishnan** along with **Mr. Nikhil Riyaz**, Founder CEO of Space Startup Hexeia/ CCCIR and **Ms. Inbisat Yousuf Nath** held interactions on 14 September 2024 with Research Team at Department of Physics, NIT Srinagar, Coordinated by the Senior **Professor Dr. M.A.Sha** and **Prof Prince Ganai** with his Team of Professors of NIT Srinagar.

 **TASA** 國家太空中心
Taiwan Space Agency



TASTI 2024

TAIWAN International Assembly of Space Science, Technology, and Industry

NOV.30 - DEC.04, 2024
Kaohsiung Exhibition Center
Kaohsiung, Taiwan

68 : 00 : 48 : 47
Days Hours Minutes Seconds

For More details: <https://tasti2024.conf.tw/site/page.aspx?pid=901&sid=1584&lang=en>



Welcome to TASTI 2024

TASTI 2024 is a highly esteemed gathering organized by the Taiwan Space Agency (TASA) that aims to bring together experts from various fields in the space industry. As a unique hub for expert idea exchange, TASTI 2024 offers a platform for academia, governments, and industries to collaborate and share insights.





Link the World through Space

ITCA-75 Satellites Consortium-IPE Publications with ISBN

Course Materials Available For Credit Courses (For AICTE Model Curriculum) to be Offered by NITs/Anna University/Autonomous Colleges/any EEs/HEIs/75 Students' Satellites Consortium Member Institutions

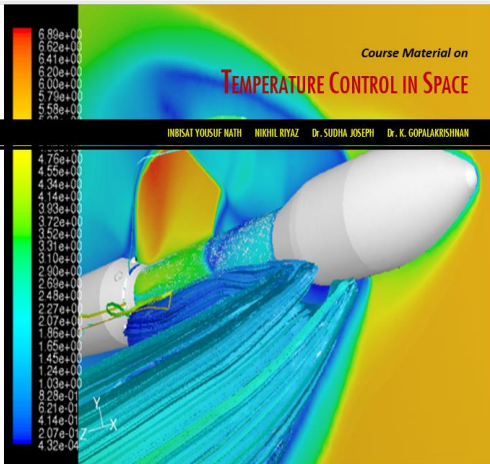
Published by Zata Solutions LLP

Joint Publication of 75 Students' Satellites Consortium IITs, WRC, BRICS FED & CIT

Course Material on
TEMPERATURE CONTROL IN SPACE


INBISAT YOUSUF NATH NIKHIL RIYAZ Dr. SUDHA JOSEPH Dr. K. GOPALAKRISHNAN



Contours of Mach Number (Time=1.3200e+00) Jan 15, 2007
FLUENT 6.2 (3d, dp, coupled imp, ske, unsteady)

Published by Zata Solutions LLP Image Courtesy: European Space Agency

978-81-969104-7-1



Course Material on
CanSats to CubeSats


Nikhil Riyaz Inbisat Yousof Nath Syed Hayath
Dr. K. Gopalakrishnan Dr. P. Cyril Prasanna Raj Dr. D. Antony Louis Priyakumar

UNITY CanSats to CubeSats

An Introduction to Nano Satellite Engineering

Nano Satellite Centre
Cambridge Institute of Technology
Sponsored by TSC Technologies, FICA and UNISSEC India

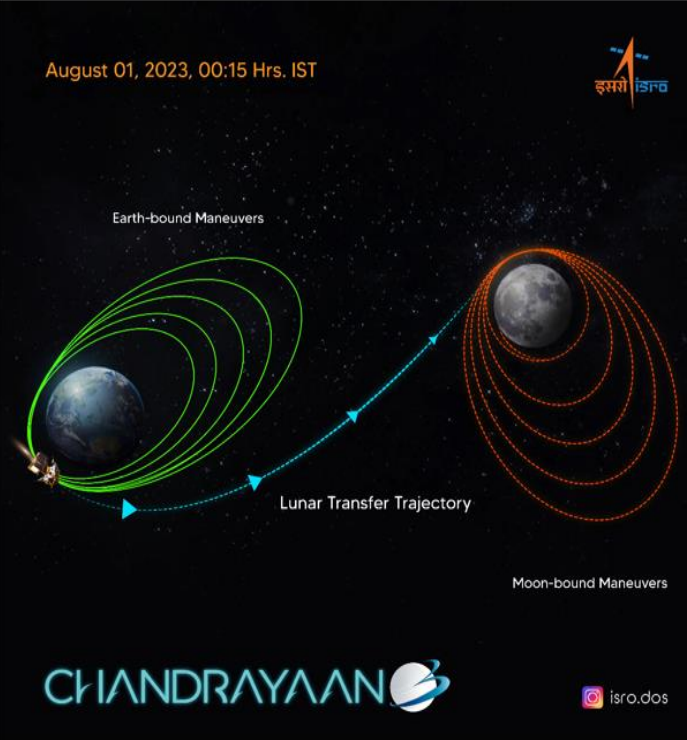
ITech Satellite



Course Material on
Orbital Analysis and Transfer Orbit

Inbisat Yousof Nath Nikhil Riyaz Dr. Kavitha Joseph Dr. K. Gopalakrishnan

August 01, 2023, 00:15 Hrs. IST



Earth-bound Maneuvers

Lunar Transfer Trajectory


Moon-bound Maneuvers

CHANDRAYAAN 3

isro.dos

Image Courtesy: ISRO


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Course Material on
Insights on the Evolution and Project Management of 75 Students' Satellites Consortium Mission

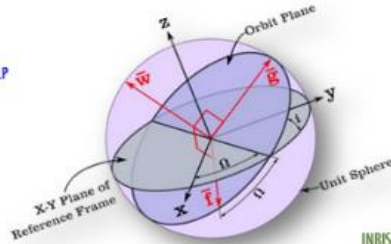
Dr. K. Gopalakrishnan, Inbisat Yousof Nath, Nikhil Riyaz,
Dr. D. Antony Louis Priyakumar, Dr. P. Cyril Prasanna Raj and Dr. Y. Muralidhar Reddy

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ITCA-75 Satellites Consortium- IPE Publications with ISBN

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Course Material on GEOMETRY OF ORBITS

INBISAT YOUSUF NATH NIKHIL RIYAZ Dr. KAVITHA JOSEPH Dr. K. GOPALAKRISHNAN

Joint Publication of 75 Students' Satellites Consortium-ITCA, WCRC, BRICS FED & CIT



978-81-969104-5-7

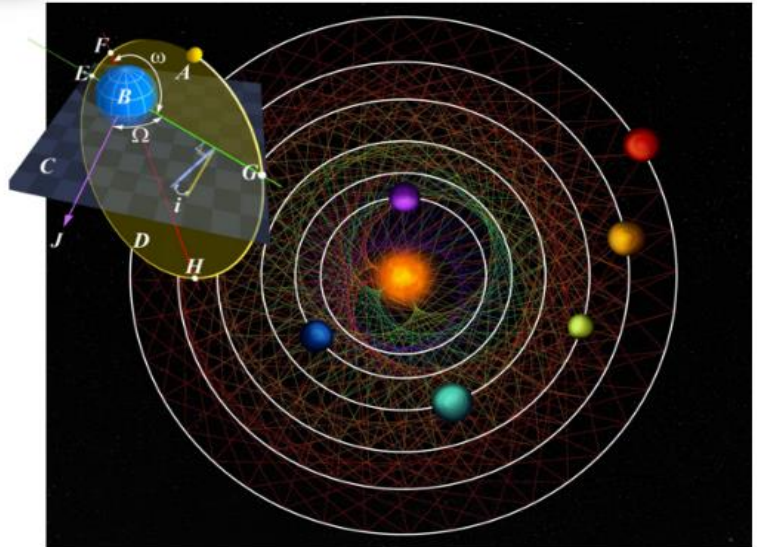


Image Courtesy: European Space Agency

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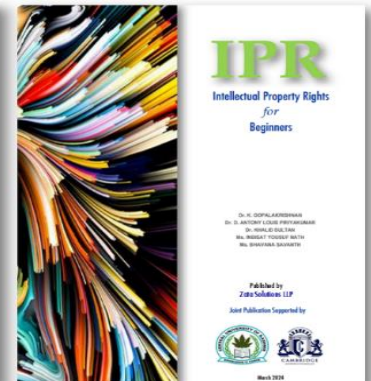
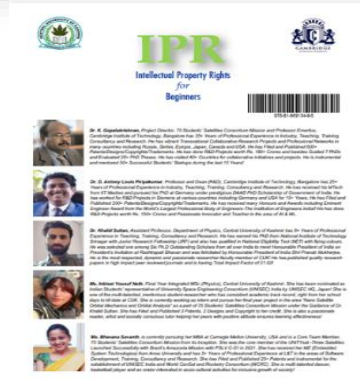


Emerging Global Trends in Space Sector

Dr. K. Gopalakrishnan
Inbisat Yousof Nath
Nikhil Riyaz
Dr. D. Antony Louis Priyakumar
Dr. P. Cyril Prasanna Raj
Dr. Y. Muralidhar Reddy

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Joint Publication of 75 Students' Satellites Consortium-ITCA, WCRC, BRICS FED & CIT





IPE Chapters interested in Launching Their Own Satellites or to establish the UNISEC India Chapter at Their Institutions can contact: Dr. K. Gopalakrishnan, National Secretary, IPE at profgoki@yahoo.com or M: 98451 73730

India- Israel Partnership

- Innovation, Robust Technology Base, Disruptive Technologies
- Academic Research to Products and Solutions
- Approach to Outreach Educational Programmes – Industry & Institute
- Mastered in Space Technology
- Strong in Communication, Observation Science and Education International Co-operation, Bilateral Agreements with India including Student
- Exchange Programmes and Joint Projects
- Funds - Grants, Soft Loans etc

How Institutions Can Engage

- Build Strong "Space Technology" Competencies
- Hands on Development Experience- Students and Faculty Members
- More Industry Interaction (Real Time)
- State-of-the-art Technology Interventions
- Create New Job, Start-ups and Incubation facilities
- Nurture Future Space Engineers/Scientists
- Technology Demonstration - S&T Research
- Support Education Outreach
- Make Students Future Career Ready

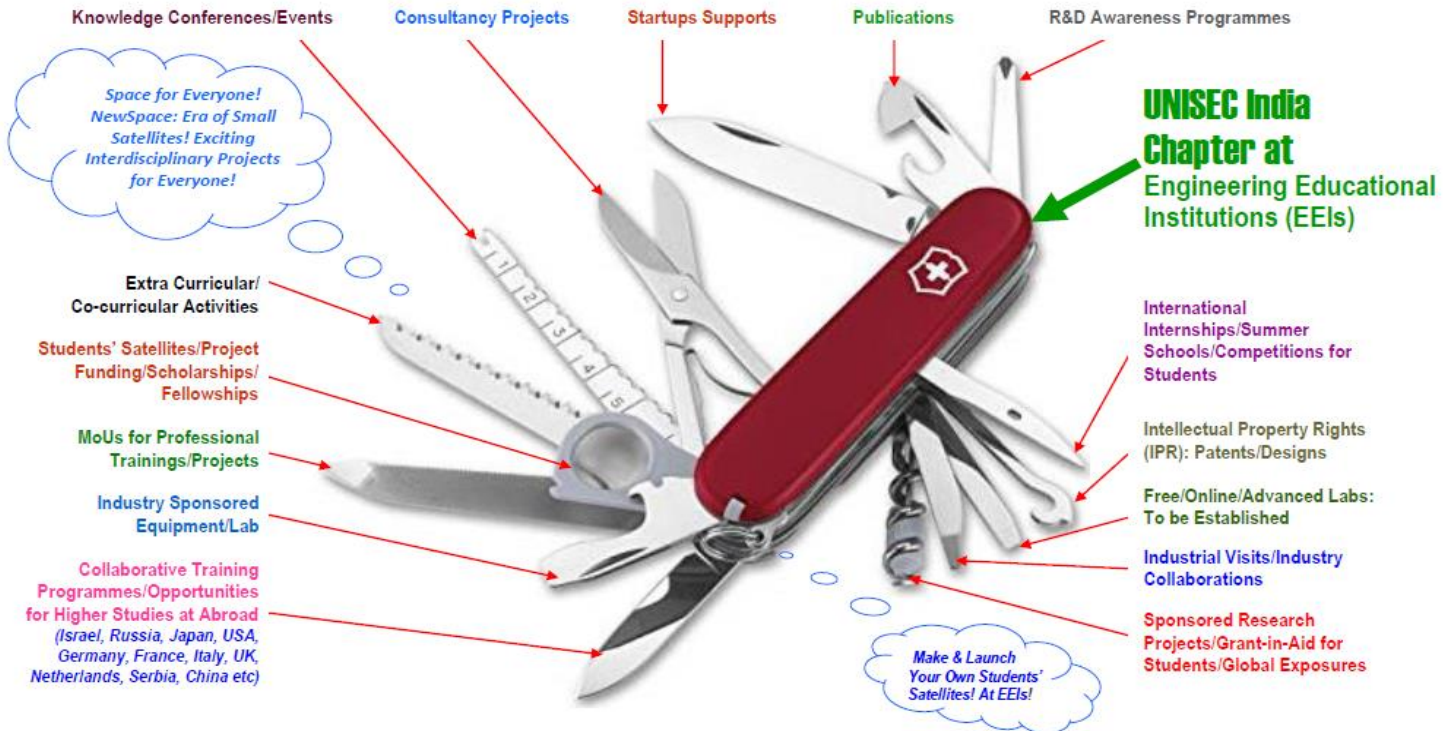
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MoU has been Signed for **Launching 75 Students' Satellites** with Indian National Space Promotion and Authorisation Centre (IN-SPACe) by Dr. K. Gopalakrishnan, Project Director, 75 Students' Satellites Mission in Presence of Our Honourable Prime Minister of India Shri. Narendra Modi



2nd Row-Standing: R to L: Second from Right is Dr. K. Gopalakrishnan, Project Director, 75 Students' Satellite Consortium Mission and Secretary General, Indian Technology Congress Association on 10 June 2022 at Ahmedabad, Gujarat.



PM Modi inaugurates IN-SPACe headquarters in Bopal, Ahmedabad, Gujarat

Doordarshan National <https://www.youtube.com/watch?v=I2VLrite2X0>

20:45 to 21:00 Dr. K. Gopalakrishnan Exchanges MoU with IN-SPACe in the Presence of Hon'ble PM of India

Dr. K. Gopalakrishnan, ITCA has Initiated 75 Students' Satellites Mission!

An Expanding Landscape of Synergy and Cooperation



Dr K Gopalakrishnan, Secretary General, ITCA signed and exchanged an MoU with Dr P K Jain, Director-PMA, IN-SPACe in the presence of the Hon'ble Prime Minister Shri Narendra Modi Ji



ITCA Leadership Tem with Her Excellency Lt Governor of Puducherry Dr (Smt) Tamizhsai Soundararajan



ITCA Leadership Tem with His Excellency Governor of Karnataka Shri Thawar Chand Gehlot



Gujarat Technological University



Gujarat University



Marwadi University, Rajkot



M.S. Ramaiah University of Applied Sciences, Bangalore



South Point High School, Kolkata



Seshadripuram Educational Trust, Bangalore



**Academic Delegation Visited Russia in 2015 with Hon'ble President of India Shri. Pranab Mukherjee
07 - 11 May 2015 Attended the 70th Anniversary of the Victory in Great Patriotic War (World War II)**



L to R Sitting: Shri. Manoj Sinha, Minister of State, Railways, Hon'ble President of India Shri. Pranab Mukherjee and Shri. P. S. Raghavan, Ambassador of India to the Russian Federation

L to R Standing: Prof. Bimal K. Roy, Director, Indian Statistical Institute, Dr. K. Gopalakrishnan, Chairman, R&D-IEI and Professor Emeritus, CITech, Er. A. Basa, Immediate Past President, IEI, Er. S. S. Rathore, Past President, IEI, Prof. R. K. Shevgaonkar, Director, IIT Delhi, Dr. L. V. Muralikrishna Reddy, President, IEI, Mr. Satyanarayan Mohanty, MHRD Secretary, Prof. Dinesh Singh, Vice Chancellor, University of Delhi, Dr. Jayant B. Udgaonkar, National Centre for Biological Sciences, Prof. Devang Khakhar, Director, IIT Bombay and Prof. Bhaskar Ramamurthi, Director, IIT Madras (not seen)



IEI Delegation at Moscow, Russia during 07 - 11 May 2015 with Indian Foreign Secretary, Mr. S. Jaishankar and MHRD Secretary (Higher Education), Mr. Satyanarayan Mohanty. L to R: Dr. K. Gopalakrishnan, Chairman, R&D-IEI, Er. S. S. Rathore, Past President, IEI, Mr. S. Jaishankar, Mr. Satyanarayan Mohanty, Dr. L. V. Muralikrishna Reddy, President, IEI, Mr. A. Basa, Immediate Past President, IEI